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| SUBSTITUTE FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   |   | ATTORNEY'S DOCKET NUMBER<br>07917-166US1                            |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/507232</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/US03/07323  | INTERNATIONAL FILING DATE<br>7 March 2003 | PRIORITY DATE CLAIMED<br>8 March 2002                               |
| TITLE OF INVENTION<br>ALTERING VIRAL TROPISM   |   |   |
| APPLICANT(S) FOR DO/EO/US<br><b>Michael R. Green et.al.</b>  |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |   |
| <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li><input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li><input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li><input type="checkbox"/> The US has been elected (Article 31).</li> <li><input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li><input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li><input type="checkbox"/> An English language translation of amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li><input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li><input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |   |   |
| Items 11 to 20 below concern document(s) or information included:  |   |   |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information:<br/>Sequence Listing (paper copy (7 pages total); one diskette containing electronic copy of Sequence Listing; Information Disclosure Statement (1 page) and Forms 1449 (2 pgs); International Search Report mailed June 21, 2004.</li> </ol>  |   |   |
| <b>CERTIFICATE OF MAILING BY EXPRESS MAIL</b><br>Express Mail Label No. <b>EV 382 036 869 US</b><br>Date of Deposit: <b>September 8, 2004</b>  |   |   |

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/507232</b>   | INTERNATIONAL APPLICATION NO.<br>PCT/US03/07323  | ATTORNEY'S DOCKET NUMBER<br>07917-166US1 |   |                 |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:   |  | CALCULATIONS PTO USE ONLY                |   |                 |
| <b>Basic National Fee ( 37 CFR 1.492 (a) (1) - (5):</b>   |  |  |   |                 |
| Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1080</b> |  |  |   |                 |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... <b>\$920</b>   |  |  |   |                 |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$770</b>   |  |  |   |                 |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... <b>\$730</b>   |  |  |   |                 |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100</b>  |  |  |   |                 |
| <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>   |  |  |   |                 |
| <b>\$730.00</b>   |  |  |   |                 |
| Surcharge of \$130 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).   |  |  |   |                 |
| <b>\$0.00</b>   |  |  |   |                 |
| CLAIMS  | NUMBER FILED   | NUMBER EXTRA                             | RATE  |                 |
| Total Claims  | 34 - 20 =  | 14                                       | x \$18  | <b>\$252.00</b> |
| Independent Claims  | 7 - 3 =  | 4  | x \$86  | <b>\$344.00</b> |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable)  |  |  | + \$290   | <b>\$0.00</b>   |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |  |  | <b>\$1,326.00</b>   |                 |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |  |  | <b>\$663.00</b>   |                 |
| <b>SUBTOTAL =</b>   |  |  | <b>\$663</b>  |                 |
| Processing fee of \$130 for furnishing the English Translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f))   |  |  | <b>\$0.00</b>   |                 |
| <b>TOTAL NATIONAL FEE =</b>   |  |  | <b>\$663.00</b>   |                 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +                                     |  |  | <b>\$0.00</b>   |                 |
| <b>TOTAL FEES ENCLOSED =</b>  |  |  | <b>\$663</b>  |                 |
|   |  |  | Amount to be refunded:  | \$              |
|   |  |  | charged:  | \$              |
| a. <input checked="" type="checkbox"/>  | A check in the amount of \$663 to cover the above fees is enclosed.  |  |   |                 |
| b. <input type="checkbox"/>   | Please charge my Deposit Account No. 06-1050 in the amount of \$0.00 to cover the above fees. A duplicate copy of this sheet is enclosed.  |  |   |                 |
| c. <input checked="" type="checkbox"/>  | The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1050. A duplicate copy of this sheet is enclosed. |  |   |                 |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed and granted to restore the application to pending status.</b>              |  |  |   |                 |
| SEND ALL CORRESPONDENCE TO:   |  |  |   |                 |
| PTO Customer No: 26161  |  | SIGNATURE                                | <br>Janice L. Kugler |                 |
| NAME _____  |  |  |   |                 |
| REGISTRATION NUMBER <b>50,429</b>   |  |  |   |                 |